

10523479 - GPC 1632
JC03 Rec'd PCT/PTO 14 NOV 2009 # 4



Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	4	Application Number	10/523479-Conf. #6126
		Filing Date	February 4, 2005
		First Named Inventor	MORAN, Magdalene M.
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	0110313.00138US2

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> Alter Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

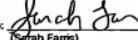
Firm Name	WILMER CUTLER PICKERING HALE AND DORR LLP		
Signature			
Printed name	Lisa N. Geller, Ph.D.		
Date	9 November 2005	Reg. No.	51,726

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: November 10, 2005

Signature: (Sarah Farni)

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: November 10, 2005 Signature: 
(Sarah Farns)

Docket No.: 0110313.00138US2
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Magdalene M. MORAN et al.

Application No.: 10/523479

Confirmation No.: 6126

Filed: February 4, 2005

Art Unit: Not Yet Assigned

For: SPERM-SPECIFIC CATION CHANNEL,
CATSPER3, AND USES THEREFOR

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants hereby make of record the publications listed on the attached Form PTO/SB/08a/b. Copies of all cited references are enclosed.

This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action on the merits. No fee is required.

Applicants request that the Examiner initial and return a copy of the enclosed Form PTO SB-08 with the next communication.

Dated: 9 November 2005

Respectfully submitted,

By 
Lisa N. Geller, Ph.D.
Registration No.: 51,726
WILMER CUTLER PICKERING HALE AND
DORR LLP
60 State Street
Boston, Massachusetts 02109
(617) 526-6000
Attorney for Applicants

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/523479-Conf. #6126
(Use as many sheets as necessary)				Filing Date	February 4, 2005
Sheet	1	of	2	First Named Inventor	MORAN, Magdalene M.
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	110313.138 US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY		
BA	WO-00/61624	10-19-2000	Human Genome Sciences, Inc.		T5
BB	WO-01/07611	02-01-2001	Genentech, Inc.		
BC	WO-01/54477	08-02-2001	Hyseq, Inc.		
BD	WO-01/75067	10-11-2001	Hyseq, Inc.		
BE	WO-02/090567	11-14-2002	Children's Medical Center, Corporation		
BF	WO-03/089583	10-30-2003	Origene Technologies, Inc.		
BG	WO-03/091434	11-06-2003	Takeda Chemical Industries, Ltd.		
BH	WO-03/099865	12-04-2003	Inpharmatica Limited		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Application or publication number (optional).² See Kind Codes of USPTO Patent Classification at www.uspto.gov.³ ⁴ If Office did not issue the document, use the two-letter code (WIPO Standard ST.3).⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.⁶ Applicant is to place a check mark here if English language translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
CA	Amrout et al., "Activation of mouse sperm T-type Ca ₂₊ channels by adhesion to the egg zona pellucida," Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 13004-13009.				
CB	Bedford, "Mammalian Fertilization Misread? Sperm Penetration of the Eutherian Zona Pellucida Is Unlikely to be a Lytic Event," Biology of Reproduction, Vol. 59, pp. 1275-1287.				
CC	Darszon et al., "Ion Channels in Sperm Physiology," Physiological Reviews, Vol. 79, No. 2, April 1999, pp. 481-510.				
CD	Database EMBL, 11 October 2001, XP002314905, Database Accession No. AAS90759				
CE	Database EMBL, 14 November 1997, XP002314900, Database Accession No. AA662668				
CF	Database EMBL, 2 March 2000, XP002314904, Database Accession No. AW472972				
CG	Database EMBL, 3 March 2000, XP002306736, Database Accession No. AA416577				
CH	Database EMBL, 2 December 2000, XP002314901, Database Accession No. BF436942				
CI	Database EMBL, 9 May 2001, XP002314908, Database Accession No. BG718343				
CJ	Database EMBL, 8 June 2000, XP002314899, Database Accession No. AW971983				
CK	Database EMBL, 8 October 2001, XP002314906, Database Accession No. BI826910				
CL	Database EMBL, 15 October 2001, XP002306740, Database Accession No. AF407332				
CM	Database EMBL, 29 November 2001, XP002314910, Database Accession No. ALB90376				
CN	Database EMBL, 1 December 2001, XP002306739, Database Accession No. Q91ZRS				
Examiner Signature	/David Montanari/			Date Considered	04/23/2008

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/523479-Conf. #6126
(Use as many sheets as necessary)				Filing Date	February 4, 2005
Sheet	2	of	2	First Named Inventor	MORAN, Magdalene M.
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	110313.138 US2

CO	Database EMBL, 11 September 1997, XP002314902, Database Accession No. AA574312	
CP	Database EMBL, 30 November 1999, XP002314903, Database Accession No. AW197851	
CQ	Database EMBL, 3 March 2000, XP002306735, Database Accession No. AA416682	
CR	Database EMBL, 30 May 2000, XP002306734, Database Accession No. AP000586	
CS	Database EMBL, 20 October 2000, XP002314898, Database Accession No. BF902492	
CT	Database EMBL, 25 January 2001, XP002314968, Database Accession No. BF934163	
CU	Database EMBL, 8 October 2001, XP002314907, Database Accession No. B1829451	
CV	Database EMBL, 15 October 2001, XP002306738, Database Accession No. AF407333	
CW	Database EMBL, 29 November 2001, XP002314911, Database Accession No. AB889967	
CX	Database EMBL, 1 December 2001, XP002306737, Database Accession No. Q96P76	
CY	Database EMBL, 25 March 2004, XP002314912, Database Accession No. ACN41330	
CZ	Database EMBL, 9 May 2001, XP002314909, Database Accession No. BG718245	
CA1	Garbers, "Ion channels. Swimming with sperm," Nature, Vol. 413, No. 6856, Oct 2001, pp. 579, 581-582, XP_002314956	
CB1	Hyne and Garbers, "Calcium-dependent increase in adenosine 3', 5'-monophosphate and induction of the acrosome reaction in guinea pig spermatozoa," Proc. Natl. Acad. Sci. USA, Vol. 76, No. 11, pp. 5699-5703.	
CC1	Jungnickel et al., "Trp2 regulates entry of Ca2+ into mouse sperm triggered by egg ZP3," Nature Cell Biology, Vol. 3, May 2001, pp. 499-502.	
CD1	O'Tools et al., "Ca2+ Entry through Store-operated Channels in Mouse Sperm Is Initiated by Egg ZP3 and Drives the Acrosome Reaction," Molecular Biology of the Cell, Vol. 11, pp. 1571-1584, May 2000.	
CE1	Quill et al., "A voltage-gated ion channel expressed specifically in spermatozoa," PNAS, Vol. 98, No. 22, 12527-12531.	
CF1	Ren et al., "A Sperm Ion Channel Required for Sperm Motility and Male Fertility," Nature, Macmillan Journals Ltd., London, Vol. 413, No. 6856, October 11, 2001, pp. 603-609	
CG1	Santi et al., "A dihydropyridine-sensitive T-type Ca2+ current is the main Ca2+ current carrier in mouse primary spermatocytes," American Journal of Physiology, Vol. 271, pp. C1583-93, 1996.	
CH1	Serrano et al., "Voltage-dependent Ca2+ channel subunit expression and immunolocalization in mouse spermatogenic cells and sperm," FEBS Letters, 462, pp. 171-176, 1999.	
CI1	Strausberg, Homo Sapiens, Clone Image 03 March 2003, pages 1-3, especially pages 2-3.	
CJ1	Tash, "Role of the eAmp, Calcium, and Protein Phosphorylation in Sperm Motility," Controls of Sperm Motility: Biological and Clinical Aspects, ed. Gagnon, pp. 229-240, 1990.	
CK1	Wassarman et al., "A profile of fertilization in mammals," Nature Cell Biology, Vol. 3, E59-E64, February 2001.	
CL1	Wennebush et al., "Cav2.2 and Cav2.3 (N- and R-type) Ca2+ Channels in Depolarization-evoked Entry of Ca2+ into Mouse Sperm," The Journal of Biological Chemistry, Vol. 275, No. 28, pp. 21210-21217, 2000.	
CM1	Weyand et al., "Cloning and functional expression of a cyclic nucleotide-gated channel from mammalian sperm," Nature, Vol. 368, pp. 859-863, April 28 1994.	
CN1	Wiesner et al., "Cyclic Nucleotide-gated Channel on the Flagellum Control of Ca2+ Entry into Sperm," The Journal of Cell Biology, Vol. 142, No. 2, pp. 473-484, 1998.	
CO1	Yanigimachi, "Mammalian Fertilization," The Physiology of Reproduction, Second Edition, eds. Knobil and Neill, pp. 189-317, 1994.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	/David Montanari/	Date Considered	04/23/2008
--------------------	-------------------	-----------------	------------